

# Gabriel Carvalho Silva

Brazilian, 24 years old

umgabrielcarvalho@gmail.com   linkedin.com/in/umgabrielcarvalho   github.com/notmilhouse  
notmilhouse.github.io

## Summary

Passionate about software engineering with a strong foundation in programming since age 13. Skilled in Java, Kotlin, Python, and modern frameworks. Known for proactive collaboration, clear communication, and a growth mindset. Interested in growing into a software architect role, building scalable and robust solutions.

## Skills

- **Programming Languages:** Java, Kotlin, Python, C/C++, SQL, Shell scripting
- **Frameworks and Tools:** Spring Boot, Kafka, FastAPI, PostgreSQL, Git, Docker
- **Architectural Concepts:** Microservices, Domain-Driven Design, Event-Driven Architectures
- **Languages:** English (C2), Spanish (A2), Portuguese (native)

## Experience

- **Associate Application Engineer** Oct 2024 – Present  
*Foretellix* *Remote*  
  
Develop workshops and software bridges to integrate clients' needs into the Foretellix platform.  
Create Shell and Python scripts to automate tasks and streamline client workflows.
- **Data Engineer Intern** May 2024 – Oct 2024  
*IEA - USP RP* *Ribeirão Preto, Brazil*  
  
Refactored PostgreSQL database schemas, reducing query times from over 1 minute to under 20 seconds.  
Built dashboards for educational data visualization and insights.  
Set up an on-premises server with Docker and implemented basic CI/CD pipelines to improve workflow efficiency.
- **Data Engineer Intern** Aug 2023 – Feb 2024  
*BRICS - TU Braunschweig* *Braunschweig, Germany*  
  
Developed a pipeline abstraction framework to help data scientists focus on domain analysis rather than programming details, using Pandas and other Python libraries behind a domain-specific language.
- **Full Stack Intern** Aug 2023 – Feb 2024  
*PLRI - TU Braunschweig* *Braunschweig, Germany*  
  
Developed a full-stack application in Python (FastAPI) and PostgreSQL with both a web front-end in React and an Android app for AI-aided diagnosis of horseshoe images.
- **Software Engineer Intern** Feb 2021 – Jan 2023  
*iFood - Financial Services Tribe* *Remote*  
  
Created an error mapping library in Kotlin using a domain-specific language (DSL) for better error handling across microservices.  
Developed and refactored microservices using Kotlin and Java (Spring Boot).  
Contributed to architectural discussions and implemented solutions using Kafka for high-throughput scenarios.

## Education

- **Universidade de São Paulo (USP)** Expected 2025  
*Bachelor of Computer Science* *Mar 2020 – Present*

- Focus on distributed systems, software engineering, and IoT
- **Technische Universität Braunschweig**  
*Exchange Program*

Mar 2023 – Mar 2024  
Germany

## Leadership & Contributions

- **Computer Science Academic League**  
*Founder and active member* May 2024 – Present
- **Hypatia**  
*Algebra tutor* Since Mar 2025
- **Octobit Junior**  
*Prior Head of Projects; current support counselor* Since Jul 2024
- **GEMPRO (Programming Marathon Study Group)**  
*Co-Founder* 2020 – 2021
- **Computer Science Week**  
*President and partner relations* 2020 – 2021
- **CRel (MUN Club)**  
*Head of Academic Activities* 2015 – 2017
- **Fermat Project**  
*Informatics tutor* 2017
- **Tutouros Project**  
*Mathematics tutor* 2015

## Certifications

- TOEFL iBT score: 113/120
- High School Programming Competition: 2nd place
- Model United Nations: Best Delegate, 3 Honorable Mentions, 1 Oral Mention

## References

Mr. Cristiano Hahn    cristianohahn.contato@gmail.com    Senior Software Engineer at iFood